

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/088,154 07/16/2002		Franz-Josef Adams	SWR-0080	2913		
23413 7	7590 07/07/2003					
CANTOR COLBURN, LLP			EXAMINER			
55 GRIFFIN R BLOOMFIELI	COAD SOUTH D, CT 06002		DUNWOODY, AARON M			
			ART UNIT	PAPER NUMBER		
			3679			
			DATE MAILED: 07/07/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

•	-	Application N	0.	Applicant(s)	 -		
•		10/088,154		ADAMS ET AL.	\sim		
Office Action Summary		Examiner		Art Unit			
		Aaron M Duny	•	3679			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
after SIX (6) MONTHS from the r - If the period for reply specified at - If NO period for reply is specified	THIS COMMUNICATIOn the under the provisions of 37 CFI mailing date of this communication pove is less than thirty (30) days, a above, the maximum statutory perextended period for reply will, by stater than three months after the maximum status or the maximum status of the state	N. R 1.136(a). In no event, he reply within the statutory i riod will apply and will exp atute. cause the applicatio	owever, may a reply be tin minimum of thirty (30) day re SIX (6) MONTHS from n to become ABANDONE	nely filed s will be considered time the mailing date of this of	ely. communication.		
1) Responsive to cor	nmunication(s) filed on 1	12 March 2003 .					
2a) This action is FINA	AL . 2b)⊠	This action is non	-final.				
Since this applicated closed in accordated Disposition of Claims	ion is in condition for allence with the practice und	owance except for der <i>Ex parte Quayl</i>	formal matters, pr e, 1935 C.D. 11, 4	osecution as to th 53 O.G. 213.	ne merits is		
4)⊠ Claim(s) <u>1-10</u> is/ar	e pending in the applica	tion.					
4a) Of the above cla	aim(s) is/are with	drawn from conside	eration.				
5) Claim(s) is/a	re allowed.						
6)⊠ Claim(s) <u>1,5 and 7-</u>	10 is/are rejected.						
7)⊠ Claim(s) <u>2-4 and 6</u>	is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is	objected to by the Exam	iner.					
10) The drawing(s) filed	on is/are: a)□ ad	ccepted or b) obje	cted to by the Exar	niner.			
	equest that any objection to						
11) ☐ The proposed drawing	ng correction filed on	is: a)∏ appro	ved b) disappro	ved by the Examin	er.		
	ed drawings are required in	• •	action.				
12)☐ The oath or declarat	•	Examiner.					
Priority under 35 U.S.C. §§	119 and 120						
13) Acknowledgment is		eign priority under	35 U.S.C. § 119(a)	-(d) or (f).			
a)⊠ All b)⊡ Some *	c) None of:						
1. Certified copi	es of the priority docume	ents have been rec	ceived.				
2. Certified copi	2. Certified copies of the priority documents have been received in Application No						
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is n	nade of a claim for dome	estic priority under	35 U.S.C. § 119(e) (to a provisional	application).		
a) ☐ The translation 15)☐ Acknowledgment is r	of the foreign language nade of a claim for dome						
Attachment(s)							
Notice of References Cited (P' Notice of Draftsperson's Pater Information Disclosure Statem	t Drawing Review (PTO-948)		Notice of Informal P	(PTO-413) Paper Notation (PTo			
S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office	Action Summary		Part of Paper No. 10	0		

Art Unit: 3679

DETAILED ACTION

Claim Objections

Claims 2-4 and 6 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The forming of a ball cage from a blank has not been considered a patentable structural limitation of the ball cage in claim 1, and claims 2-4 and 6 further limit a non-patentable limitation.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5, 7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent 3935717, Welschof.

In regards to claims 1 and 9, Welschof discloses a ball cage (16) comprising window-type ball pockets (24) located along an equator (not shown) with substantially equator-parallel bearing surfaces that interact with joint balls (18), with substantially annular functional zones (46) that are designed at least on outer ring edge areas that interact with the joint bell, and with substantially annular functional areas (46') that are designed on inner ring areas and interact with the joint spider, wherein at least some of the functional zones are elevated compared to the neighboring areas of the ball cage.

Art Unit: 3679

Note, a comparison of the recited process with the prior art processes does NOT serve to resolve the issue concerning patentability of the product. In re Fessman, 489 F2d 742, 180 U.S.P.Q. 324 (CCPA 1974). Whether a product is patentable depends on whether it is known in the art or it is obvious, and is not governed by whether the process by which it is made is patentable. In re Klug, 333 F2d 905, 142 U.S.P.Q. 161 (CCPA 1964). In an ex parte case, product-by-process claims are not construed as being limited to the product formed by the specific process recited. In re Hirao et al., 535 F2d 67, 190 U.S.P.Q. 15, see footnote 3 (CCPA 1976). Therefore, the ball cage being formed from a blank is given little patentable weight.

In regards to claim 5, Welschof discloses the functional zones, which have been hard-turned, being elevated compared to the adjacent surface after a finishing process or being at the most on a same level.

Note, a comparison of the recited process with the prior art processes does NOT serve to resolve the issue concerning patentability of the product. In re Fessman, 489 F2d 742, 180 U.S.P.Q. 324 (CCPA 1974). Whether a product is patentable depends on whether it is known in the art or it is obvious, and is not governed by whether the process by which it is made is patentable. In re Klug, 333 F2d 905, 142 U.S.P.Q. 161 (CCPA 1964). In an ex parte case, product-by-process claims are not construed as being limited to the product formed by the specific process recited. In re Hirao et al., 535 F2d 67, 190 U.S.P.Q. 15, see footnote 3 (CCPA 1976). Therefore, the functional zones being harden-turned, and elevated after a finishing process or at most on a same level is given little patentable weight.

Art Unit: 3679

In regards to claim 7, Welschof discloses the window-type ball pockets being stamped.

Note, a comparison of the recited process with the prior art processes does NOT serve to resolve the issue concerning patentability of the product. In re Fessman, 489 F2d 742, 180 U.S.P.Q. 324 (CCPA 1974). Whether a product is patentable depends on whether it is known in the art or it is obvious, and is not governed by whether the process by which it is made is patentable. In re Klug, 333 F2d 905, 142 U.S.P.Q. 161 (CCPA 1964). In an ex parte case, product-by-process claims are not construed as being limited to the product formed by the specific process recited. In re Hirao et al., 535 F2d 67, 190 U.S.P.Q. 15, see footnote 3 (CCPA 1976). Therefore, the window-type ball pockets being stamped is given little patentable weight.

Claims 1, 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent 3815381, Wagner.

In regards to claims 1 and 9, Wagner discloses a ball cage (30) comprising window-type ball pockets (44) located along an equator (see figure 4) with substantially equator-parallel bearing surfaces that interact with joint balls (32), with substantially annular functional zones (42c) that are designed at least on outer ring edge areas that interact with the joint bell, and with substantially annular functional areas (66) that are designed on inner ring areas and interact with the joint spider, wherein at least some of the functional zones are elevated compared to the neighboring areas of the ball cage.

Art Unit: 3679

Note, a comparison of the recited process with the prior art processes does NOT serve to resolve the issue concerning patentability of the product. <u>In re Fessman</u>, 489 F2d 742, 180 U.S.P.Q. 324 (CCPA 1974). Whether a product is patentable depends on whether it is known in the art or it is obvious, and is not governed by whether the process by which it is made is patentable. <u>In re Klug</u>, 333 F2d 905, 142 U.S.P.Q. 161 (CCPA 1964). In an ex parte case, product-by-process claims are not construed as being limited to the product formed by the specific process recited. <u>In re Hirao et al.</u>, 535 F2d 67, 190 U.S.P.Q. 15, see footnote 3 (CCPA 1976). Therefore, the ball cage being formed from a blank is given little patentable weight.

In regards to claim 10, the cage having functional zones that have an elevated design on fin areas (42b), which separate the ball pockets, and having functional zones that have been hard-turned.

Note, a comparison of the recited process with the prior art processes does NOT serve to resolve the issue concerning patentability of the product. In re Fessman, 489 F2d 742, 180 U.S.P.Q. 324 (CCPA 1974). Whether a product is patentable depends on whether it is known in the art or it is obvious, and is not governed by whether the process by which it is made is patentable. In re Klug, 333 F2d 905, 142 U.S.P.Q. 161 (CCPA 1964). In an ex parte case, product-by-process claims are not construed as being limited to the product formed by the specific process recited. In re Hirao et al., 535 F2d 67, 190 U.S.P.Q. 15, see footnote 3 (CCPA 1976). Therefore, the functional zones have been hard-turned is given little patentable weight.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Welschof.

In regards to claim 8, Welschof discloses the claimed invention except for the window-type pockets having such dimensions that the surfaces, on which the equator-parallel functional zones are designed, being longer than these. It would have been obvious to one having ordinary skill in the art at the time the invention was made to fabricate the window-type pockets with such dimensions that the surfaces, on which the equator-parallel functional zones are designed, being longer than these, since a change in the shape of a prior art device is a design consideration within the skill of the art. In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure because it illustrates the current state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M Dunwoody whose telephone number is (703) 306-3436. The examiner can normally be reached on Monday - Friday between 7:30 am to 4:00 pm.

Art Unit: 3679

Page 7

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on (703) 308-1159. The fax phone numbers for the organization where this application or proceeding is assigned are (703)

872-9302 for regular communications and (703) 872-9327 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

.amd June 24, 2003

> Lynne H. Browne Supervisory Patent Examiner Technology Center 3670